

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	5	"551732".ap.	US-PGPUB; USPAT	ADJ	ON	2007/12/10 09:05
S2	6	("20050268999"   "20070023281"   "6331233"   "6348113"   "6348139"   "7156963"). PN.	US-PGPUB; USPAT	ADJ	ON	2007/12/10 09:06
S3	154	148/668.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/12/11 14:10
S4	63	148/668.ccls. and (tantalum or ta)	US-PGPUB; USPAT	ADJ	ON	2007/12/11 14:10
S5	3	(tantalum or ta) and (nonrecrystal\$8)	US-PGPUB; USPAT	ADJ	ON	2007/12/11 14:29
S6	16	(tantalum or ta) and (non-recrystal\$8)	US-PGPUB; USPAT	ADJ	ON	2007/12/11 14:30
S7	0	148/668.ccls. and (tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8)	US-PGPUB; USPAT	ADJ	ON	2007/12/11 14:48
S8	273	204/298.12.ccls. and (tantalum or ta)	US-PGPUB; USPAT	ADJ	ON	2007/12/11 15:04
S9	2	204/298.12.ccls. and (tantalum or ta) and (nonrecrystal\$8 or non- recrystal\$8)	US-PGPUB; USPAT	ADJ	ON	2007/12/11 15:04
S10	4	(sputter\$4 with target) and (non-recrystal\$8 or nonrecrystal\$8)	US-PGPUB; USPAT	ADJ	ON	2007/12/11 15:11
S11	8	(sputter\$4) and (non- recrystal\$8 or nonrecrystal\$8)	US-PGPUB; USPAT	ADJ	ON	2007/12/11 15:14
S12	1	ta sputtering targets method manufacturing	EPO	ADJ	ON	2007/12/11 15:20
S13	605	(tantalum or ta) and (sputter\$4 and (Vicker\$3 with hardness))	US-PGPUB; USPAT	ADJ	ON	2007/12/11 15:34
S14	143	((tantalum or ta) with (sputter\$4)) and (Vicker \$3 with hardness)	US-PGPUB; USPAT	ADJ	ON	2007/12/11 15:35
S15	1	("20030082864").PN.	US-PGPUB; USPAT	OR	OFF	2007/12/11 15:45
S16	1	("20070089815").PN.	US-PGPUB; USPAT	OR	OFF	2007/12/11 15:50

S17	1	("20050284546").PN.	US-PGPUB; USPAT	OR	OFF	2007/12/11 15:51
S18	1	("6193821").PN.	US-PGPUB; USPAT	OR	OFF	2007/12/11 15:55
S19	10	(sputter\$4) and (non-recrystal\$8 or nonrecrystal\$8)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/12 08:21
S20	313	tantalum and sputter\$4 target	JPO; DERWENT	ADJ	ON	2007/12/12 08:45
S21	12	tantalum and sputter\$4 target and \$4recrystal\$8	JPO; DERWENT	ADJ	ON	2007/12/12 08:46
S22	2	(sputter\$4) and (non-recrystal\$8 or nonrecrystal\$8)	EPO; JPO; DERWENT	ADJ	ON	2007/12/12 08:51
S23	4	(target) and (non-recrystal\$8 or nonrecrystal\$8)	EPO; JPO; DERWENT	ADJ	ON	2007/12/12 08:52
S24	55	(target) and (non-recrystal\$8 or nonrecrystal\$8)	US-PGPUB; USPAT	ADJ	ON	2007/12/12 08:57
S25	18	(tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8)	US-PGPUB; USPAT	ADJ	ON	2007/12/12 09:17
S26	924	(tantalum or ta) with hardness	US-PGPUB; USPAT	ADJ	ON	2007/12/12 09:37
S27	43	(tantalum or ta) with hardness with vicker	US-PGPUB; USPAT	ADJ	ON	2007/12/12 09:37
S28	57	(tantalum or ta) with hardness with vicker	JPO; DERWENT	ADJ	ON	2007/12/12 09:39
S29	18	(tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8)	US-PGPUB; USPAT	ADJ	ON	2008/09/25 13:55
S30	19	(tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8 or non recrystal\$8)	US-PGPUB; USPAT	ADJ	ON	2008/09/25 13:56
S31	758	(tantalum or ta) same \$5recrystal\$8	US-PGPUB; USPAT	ADJ	ON	2008/09/25 14:05
S32	140	(tantalum or ta) same \$5recrystal\$8 and anneal \$3 and roll\$4	US-PGPUB; USPAT	ADJ	ON	2008/09/25 14:06
S33	71	(tantalum or ta) same \$5recrystal\$8 and anneal \$3 and roll\$4 and target	US-PGPUB; USPAT	ADJ	ON	2008/09/25 14:07

S34	67	(tantalum or ta) same \$5recrystal\$8 and anneal \$3 and roll\$4 and sputter \$3	US-PGPUB; USPAT	ADJ	ON	2008/09/25 14:07
S35	22	(tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 14:49
S36	0	(tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8)	JPO	ADJ	ON	2008/09/25 14:50
S37	77	(non recrystal\$8 or non- recrystal\$8 or nonrecrystal\$8)	JPO	ADJ	ON	2008/09/25 14:50
S38	0	(non recrystal\$8 or non- recrystal\$8 or nonrecrystal\$8) and (tantalum or ta)	JPO	ADJ	ON	2008/09/25 14:50
S39	0	(non recrystal\$8 or non- recrystal\$8 or nonrecrystal\$8) and (sputter)	JPO	ADJ	ON	2008/09/25 14:50
S40	1	(non recrystal\$8 or non- recrystal\$8 or nonrecrystal\$8) and (sputter\$5)	JPO	ADJ	ON	2008/09/25 14:50
S41	1	(non recrystal\$8 or non- recrystal\$8 or nonrecrystal\$8) and target	JPO	ADJ	ON	2008/09/25 14:51
S42	1	"08269701"	JPO	ADJ	ON	2008/09/25 15:13
S43	24	(tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8 or non recrystal\$8)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:15
S44	19	"6348139"	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:18
S45	55	"6348113"	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:20
S46	1449	(tantalum or Ta) with target and (anneal\$4 same temperature)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:29

S47	167	(tantalum or Ta) with target and (anneal\$4 same temperature) and \$5recrystal\$8	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:29
S48	160	(tantalum or Ta) with target and (anneal\$4 same temperature) and \$5recrystal\$8 and sputter \$3	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:29
S49	3	(tantalum or Ta) with target and (anneal\$4 same temperature) and non-recrystal\$8 and sputter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:32
S50	4	(tantalum or Ta) with target and (anneal\$4) and non-recrystal\$8 and sputter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:46
S51	5	(tantalum or Ta) with target and (anneal\$4) and non-recrystal\$8	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:47
S52	5	(tantalum or Ta) with target and (anneal\$4) and (nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:49
S53	32	target and (anneal\$4) and (nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:49
S54	91	Yamakoshi.in. and target	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:51
S55	1	Yamakoshi.in. and target and (nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:52
S56	7	target same (nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:52
S57	6	(tantalum or ta) same (nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:55

S58	24	(tantalum or ta) and (nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 15:56
S59	57	(nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8) same anneal \$5	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 16:01
S60	7	"6566161"	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 18:01
S61	17	("3930895"   "4111721"). PN. OR ("4334935"). URP.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/26 10:41
S62	4458	(tantalum or ta) same (sputter\$5) same target	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/26 11:28
S63	1135	(tantalum or ta) same (sputter\$5) same target and (anneal\$4 same \$5crystal\$8)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/26 11:29
S64	42	(tantalum or ta) same (sputter\$5) same target and (anneal\$4 same \$5crystal\$8) and (tantalum or ta).ti.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/26 11:30
S65	13	recrystalli\$6 with temperature with (below or less) same (tantalum or Ta) same sputter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/06/03 23:09
S66	13	recrystalli\$6 with temperature with (below or less or under) same (tantalum or Ta) same sputter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/06/03 23:17
S67	537	(non recrystalli\$6) or (non-recrystalli\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/06/03 23:24
S68	30	S67 and (tantalum or Ta)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/06/03 23:24
S69	6	S68 and sputter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/06/03 23:24

S70	15	("20020063056"   "20070062806"   "20070062807"   "6197134"   "6323055"   "6759143"   "6770154"   "6893513").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 09:28
S71	68	(tantalum or Ta) with sputter\$3 same \$4recrystalli\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 09:53
S72	81	(tantalum or Ta) same (\$4recrystalli\$6 with (percent or percentage or "%"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 10:15
S73	28	S72 and sputter\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 10:17
S75	24	"6348139"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 12:28
S76	39	("4525417"   "4619695"   "4663120"   "4762558"   "4842706"   "4889745"   "4960163"   "5074907"   "5087297"   "5282946"   "5330701"   "5400633"   "5418071"   "5468401"   "5508000"   "5513512"   "5590389"   "5600989"   "5608911"   "5673581"   "5693203"   "5772860"   "5780755"   "5798005"   "5809393"   "5993575"   "5993621").PN. OR ("6348139").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/06/04 12:29
S77	2	"20010054457"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 12:50
S78	150	(tantalum or ta) same \$5recrystal\$8 and anneal \$3 and roll\$4	US-PGPUB; USPAT	ADJ	ON	2009/06/04 17:53
S79	800	(tantalum or ta) same \$5recrystal\$8	US-PGPUB; USPAT	ADJ	ON	2009/06/04 17:53
S80	22	(tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8 or non recrystal\$8)	US-PGPUB; USPAT	ADJ	ON	2009/06/04 17:53

S81	80	(tantalum or ta) same \$5recrystal\$8 and anneal \$3 and roll\$4 and target	US-PGPUB; USPAT	ADJ	ON	2009/06/04 17:53
S82	77	(tantalum or ta) same \$5recrystal\$8 and anneal \$3 and roll\$4 and sputter \$3	US-PGPUB; USPAT	ADJ	ON	2009/06/04 17:53
S83	25	(tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/06/04 17:53

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